Center for Regulatory Services, Inc.

5200 Wolf Run Shoals Road * Woodbridge, VA 22192-5755
Telephone 703 590 7337 * Fax 703 580 8637
cfrsrv@aol.com

April 22, 2015

CBIC Control Number
364820

U.S. Environmental Protection Agency – East
Attn: TSCA Section 8(e)
Room 6428
1201 Constitution Avenue, NW
Washington, DC 20004

SUBJECT: TSCA 8(e) Notification
LVE **L-01-432**

The enclosed aquatic tox results that came the attention of JSR Micro, Inc., April 17, 2015, for the subject substance that is identified in Low Volume Exemption **L-01-432**.

The results of the aquatic tox testing of the substance is only identified as **TORAX**.

48-hour EC50 Acute Immobilization in *Daphnia magna* – <1.0 mg/L
72-hour EC50 Algal Growth Inhibition in *Pseudokirchneriella subcapitata* - <1.0 mg/L

Please feel free to contact the undersigned if you have any questions or if we can provide additional information.

Sincerely,

William A. Olson, Ph.D.
Agent
JSR Micro, Inc.

WAO:gbt
JSR-8E-TORAX

Enclosures
2 Aquatic Tox Reports (4 pages)

ec: Y. Ueda/T. Ozag, JSR (w/o Enclosures)

6. Result

48-hour median effective concentration (48hr EC_{50}):

<1.0 mg/L (nominal concentration)

Table Result of immobility and quality of test solution

Test level (mg/L)	Immobility (%)		Dissolved oxygen concentration (mg/L)		pH	
	24 hours	48 hours	At the start	At the end	At the start	At the end
Control	0	0	8.9	8.9	7.8	7.8
1.0	90	100				
10	100	100				
100	100	100	8.8	8.9	7.8	7.7

CERI

Receipt number	662-14-E-6887
Study number	96887

March 17, 2015

TEST REPORT

— Algal Growth Inhibition Study in *Pseudokirchneriella subcapitata* —

Chemicals Evaluation and Research Institute,
Japan, Kurume
3-2-7, Miyanojin, Kurume-shi,
Fukuoka 839-0801, Japan

1. Test item: TORAX
2. Sponsor: JSR Corporation
3. Objective: To determine the effects of the test item on growth of algae
4. Dates
   - Exposure initiation: March 2, 2015
   - Exposure termination: March 5, 2015
5. Materials and methods
   - Test organism: *Pseudokirchneriella subcapitata*
   - Exposure conditions
     - Exposure duration: 72 hours
     - Type test: Incubation with shaking (approximately 100 rpm)
     - Test concentration: 100, 10, 1.0 mg/L as nominal concentration and a control
     - Preparation of test solution: The test item and medium were mixed to prepare each nominal concentration and stirred for 48 hours under shading. Then the suspension was filtered with a glass fiber filter (GB-140, 0.4 μm pore size, Toyo Roshi) by suction to prepare the test solution. The test item was treated under yellow fluorescent light.
   - Environmental conditions
     - Medium: OECD medium
     - Temperature: 21-24°C (not varied more than ± 2°C)
     - Initial cell concentration: 10^4 cells/mL
     - Volume of test solution: 300 mL/test level (100 mL/test vessel × 3 replicates)
     - Test vessel: Sterilized 300 mL Erlenmeyer flask with gas-permeable silicon rubber plug
     - Lighting condition: Nominal 90 $\mu mol \cdot m^{-2} \cdot s^{-1}$ (within ± 20% of nominal, within ± 15% from the average light intensity) Continuous illumination provided by fluorescent lights with wavelength range of 400-700 nm
   - Measurements
     - Biomass: Cell concentration was measured.
     - Condition of test solution: pH of 100 mg/L and control were measured at the start and end of exposure.
     - Appearance of test solution: Clear and colorless (at the start of exposure: visual)

6. Result

72-hour median effective concentration (72hr E_rC_{50}) [Based on growth rate (0-3d)]
: <1.0 mg/L (nominal concentration)

No Observed Effect Concentration (NOEC) : <1.0 mg/L (nominal concentration)

Table Growth inhibition rate and pH of test solution

Test level (mg/L)	Growth inhibition rate (%) (Growth rate 0-3d)	pH	
		At the start	At the end
Control	-	7.9	7.8
1.0	87	-	-
10	162	-	-
100	158	7.9	7.8

Center for Regulatory Services, Inc.
5200 Wolf Run Shoals Road
Woodbridge, VA 22192

74094M

U.S. Environmental Protection Agency – East
Attn: TSCA Section 8(e)
Room 6428
1201 Constitution Avenue, NW
Washington, DC 20004